Circular to Mysore

FOR MYSORE STATE

Govt. of Madras

Agri (FP) Dept

Lodged 23192/56 - FP II B(1) 18.6.56

Urgent:

Office of the Chief Engineer for Irrigation,
Chepauk, Madras-5.
Memorandum No. 1642/56-M-1, dated 7th May, 1956.

.....

Sub:- Irrigation - South Kanara District - Puthur Taluk - Construction of a vented dam across Bidu thodu in Bellare village - Sanctioned.

Ref:- From the Superintending Engineer, West Coast Circle, No.498-I, dated 14/4/1956.

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The Superintending Engineer (West Coast Circle) is informed that the work may be carried out as proposed.

2). As the Collector has offered to executed the work from the Community Project Funds already available, the Superintending Engineer, is requested to accept the offer and to leave it to that department to execute it from those funds.

3). The plans and estimate are returned herewith.

U. ANANDA RAO,
Chief Engineer (Irrigation).

To

The Superintending Engineer, West Coast Circle,
Coimbatore.

- - - - - - - - -

Endorsement No. 1642/56-M-2, dated 7th May. 1956.

.....

Copy with a copy of Superintending Engineer's (West Coast Circle) letter No. 498-I, dated 14-4-1956 (with enclosures) submitted to Secretary to Government (Ex-Officio), Agriculture (F.P.) Department for information.

2. I invite reference in this connection G.O. Ms.No 1921, Public (R.D.P.IX), dated 16-6-1955, according to which the Assistant Engineer in charge has "technical" powers to deal with estimates upto Rs. 10,000/

for Chief Engineer (Irrigation).

To

The Secretary to Government (Ex-Officio),
Agriculture (F.P.) Department, Chepauk, Madras.

Encl:- Copy of S.E's letter No. 498-I, dt.14-4-56 with enclosure.

Rv.7/5.

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As

Agri (FP) Deptt

May be lodged, after perusal by the Pub (RDP) Deptt

Pub (RDP) Deptt

22532
24/5/56

Pub (RDP) Deptt

As 2

C. 1

May be perused and returned to Agri (FP) Deptt.

Agri (FP) - ONO
23192/56-1 IIB
dt 22.5.56

By 13/6/56
14/6/56

14/6

25 MAY 1956
PUBLIC (RDP) DEPARTMENT

Agri (FP)

Pub (RDP) Deptt.
22132/56

As

Agri (FP) Deptt 14.6.56

The Pub (RDP) have seen the case. The papers may now be lodged

BOARD OF REVENUE
28466
15 JUN 1956
FOOD PRODUCTION

16/6/56
16/6/56

SECY.
15 JUN 1956

As

3

Copy of letter No.498-I, dt. 14-4-1956, from the Superintendin Engineer, West Coast Circle, Coimbatore, to the Chief Engineer (Irrigation), Chepauk, Madras-5.

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Sub:-Irrigation - Special Minor Irrigation Programme - 1956-57 South Kanara District - Puttur Taluk - Construction of a vented dam across Bidu thodu in Bellare village - Detailed Plans and estimate - Submitted.

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I submit herewith detailed plans & estimate for Rs.7,000/- for the above work for Chief Engineer's approval and early return. The scheme is reported to have been investigate at the instance of Grama Sevak Sanga, Bellare, South Kanara District. This is also included under S.M.I.P. for 1956-57, under new schemes in South Kanara District. The scope and nee for the scheme are clearly explained in the estimate report.

2/. The Collector of South Kanara has examined, the financial aspects as well as food value and furnished particulars in his No. D.Dis.28470/55- dated 16-3-56 (copy enclosed Based on the Collector's report, the cost per ton of additiona food anticipated by the implementation of the scheme works out to Rs. 1,250/- $\frac{7000/-}{5.6}$

3/. The scheme is reported to be lying in the Community Development Block, Sullia, South Kanara District. So, the expenditure on the works can be debited to the Community Project and N.E.S. Budget, with reference to Government Memo. No.2769 Public (R.D.P. Accounts) A/55-4, dated 30-9-55 even though it is sanctioned under Special Minor Irrigation Programm

4/. In view of the fact that, the food value of the scheme viz. Rs.1,250/- is beyond the orbit of my powers of approval, I request that the scheme may kindly be approved by the Chief Engineer (Irrigation), and returned to me for execution.

(Sd.) - - - -
Suptg. Engr., West Coast Circle.

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// True copy //

Rv.7/5.

Copy of letter No. D.Dis.28470/55, dated 16/3/1956, from the Collector of South Kanara, Mangalore, to the Superintending Engineer, P.W.D. West Coast Circle, Coimbatore.

-.-.-.-.-

Sub:- Irrigation - South Kanara District - Puttur Taluk - Bellare village - Construction of a vented dam across Bedu thodu - Financial forecasts.

Ref:- Your letter No. 1734-M, dated 20-12-1955.

--oOo--

It is reported that at present, on an extent of 24.79 acres of the ayacut, 2nd Crop is grown with the help of the water impounded by the mud dam put by the ryots every year, across the Beedu thodu, in Bellare village of Puttur taluk. After the construction of a vented dam, in its place, the ayacut area with spread over 41.44 acres for the second crop. Third crop also can be raised, then, on an extent of about 6.44 acres of the ayacut. The increase in the yield is estimated at 148 mooras of rice or 5.6 tons as particularised below.

		Estimated addl. yield.
1. Addl. extent over which IInd crop in be raised.	16.65 acres.	100 Muras of rice.
2. Extent to be benefitted during III crop.	6.44	48 Muras of rice.
		148 or 5.6 tons.

The lands to be benefitted stand already classified as wet lands. Hence reclassification will not be possible, and therefore there will not be any additional revenue on this account. A flat rate of Rs. 4/- per acre can be levied as water charge. The additional revenue under this head will amount to Rs. 188/-. The financial forecaste of the scheme will be as follows.

Receipts.	~~Rx 188/-~~
Water rate.	Rs. 188/-
Charges:-	
Collection charges at 5% of the water rate.	Rs. 9-6-0
Maintenance charges at Rs. 1-8/- per acre on 47 acres.	Rs.70-8-0
	79-14-0 or Rs.80/- in round figures.
Net receipts.	188-8-0 or Rs. 108/-.

Percentage of return:- $\frac{108 \times 100}{7000}$:- (-)1.54

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The work will ensure sufficiency of water for the existing ayacut besides helping additional cultivation on the lands mentioned above. The work proposed, helps the ryots of the Malnad area which is now in an undeveloped conditions. This area falls in the C.D. block Sullia. Considering the additional yield the cost of the work viz. Rs. 7000/- and the percentage of return, the scheme is worth implementing. The Block Development Officer, Sullia has already informed the Executive Engineer, P.W.D. South Kanara Division, Mangalore that he has at his command a fund not less than 2 lakhs to meet the cost of irrigation schemes of this kind. Hence even adding direct and indirect charges to the estimate of Rs.7,000/- and bringing it to Rs. 9,066/- it should be possible for the Block Development Officer to meet the cost from this allotment. The work may be sanctioned to be executed with the C.D. Funds available for the Block.

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///True copy///

Rv.8/5.

Report to accompany the estimate for constructing a vented dam across Bidu Thodu in Bellare village - Puttur taluk- South Kanara district.

Estimate Rs 7,000/-

The average rainfall of the District is about 140" and the major portion of it occurs in the Monsoon months of June to September. The Ist crop is grown in this District with the help of this abundant rainfall. But when the rains fail for period exceeding a week the high level lands without an independent source of supply suffer and the yield is greatly affected. The IInd crop is mostly raised by harnessing small streams and fairly big rivers by throwing mud kattas across them.

A mud dam is put up across the Bidu thodu in Bellare village, Puttur taluk which is one of the tributaries of the Gowri Hole, in the month of October and II crop is raised in an area of 25 acres.

This has its origin in Bellare village and flows in easterly direction. This has got a catchment of 1.53 sq. miles. The catchment is not wooded and the streams run with a streep bed fall. The maximum discharge is 1593 cuseos. The maximum flood level is 103.00 at site as ascertained by local enquiry.

The ryots are putting up a mud katta annually at the place shown in the ayacut map. This is situated at longitude 75°-22" and Latitude 12°-35'-50". The Katta is formed with the help of keeping up small laterite boulders and dumping mud. At left flank there is a rock out crop which spreads downwards of the katta site and dips towards the right side. The usual storage level is 101.00. The channel sill level is 100.00 and it runs to a length of about 4½ furlongs and it is in fair order. With the help of conserved water the II crop is grown on 24.79 acres. It is ascertained that there is leakage throughout the season through the mud katta formed. The flood water due to stray rains after forming the katta will be allowed to pass over the rock on the left margin and also over the low lying paddy fields on the left side by cutting open the narrow bank of stream. The surplus water spills over the low lying paddy fields and then joins the stream again lower down the site.

There is no submersion of land on the upstream at this storage level. It is ascertained that there is ample flood in the river during second crop and successful raising of II crop for the last so many years is also a pointer towards this. The flow in the stream dwindles after the month of December.

Proposal:- Now it is proposed to block the portion of the stream upto 101.00 for a length of 17 feet on the left flank, where solid rock is available. The right half of the stream is not completely blocked out but vents are provided vide plan enclosed. It is proposed to keep the crest of body wall at 95.00. As rock is not available and hard soil is available at 90.00 the Foundation is taken up to 89.00 and it is designed as an anicut. Hydraulic calculations are enclosed. Two vents are provided with 6' clear span for each. The top of pier is 101.00 and needle shutters with guide beams are provided. On account of construction of the structure, the front water level will be raised by 0.90'. During M.F.L. conditions and it does not

cause any foreshore submersion. The vent way provided is more than half of the water section available at M.F.L. conditions.

The structure is laid to the left bank by taking the body wall of the anicut wall within the natural ground. The left margin will be trimmed and revetted upstream and downstream. Necessary abutment with returns is provided in the right flank. As there is no rock on the right half of the stream aprons are provided which are omitted in the left flank due to the pressure of granite rock vide site survey enclosed. Aprons are properly designed and the design calculations are furnished herein.

LAND ACQUISITION. No land acquisition is necessary for putting up this structure.

Ayacut:- The present second crop acreage and under this vented dam is 24.79. After the construction of the vented dam in its place, the ayacut area will spread over 41.44 acres for the II crop. Third crop can also be raised on an extent of 6.44 acres of the ayacut. The increase in yield is estimated at 148 mooras of rice or 5.6 tons, vide Collector's report. So the cost per ton of food works out to Rs 1250/-

General:- This scheme lies in the undeveloped Malnad area which is now included in the N.E.S.Block at Sullia. Much benefit can be afforded to the cultivating ryots by executing this cheap scheme which costs only Rs 1250/- for ton of additional food produced. Besides judged from the S.M.I.P. standard the scheme is very remunerative and so it is recommended for early execution. As already mentioned this scheme lies in Sullia Community Development area and it can be executed with the funds available under the "Irrigation" head with the Block Development Officer, Sullia if it is made available.

Sd. [illegible], M.T.Shetty,
Asst.Engineer,GMF Sub Dn.
Mangalore.

Sd. A.Vamana Rao, 10-10-55
Executive Engineer, S.K.Dn.

(Sd.) xx xx
Superintending Engineer,P.W.D.
West Coast circle, Coimbatore.

/True copy/

Srinivasan 4/5

Superintendent.

prc. 8/5

PROFORMA STATEMENT.

Bidu Anicut Scheme in Bellare Village - Puttur Taluk.

1.	Sl. No. of village.	58.
2.	Name of village.	Bellare.
3.	Name of source - rank G. Inam I, Zamin Z, Zamin Taken over Z(T).	Poromboke. "G".
4.	Registered ayacut.	NIL.
5.	Average actual cultivation.	24 acres.
6.	Gap in acres.	Nil.
7.	Catchment free.	1.53 Sq. miles.
8.	Combined catchment.	Nil.
9.	Equivalent catchment, free catchment plus 1/5 combined.	1.53 Sq. Miles.
10.	Total monsoon rainfall.	140" average
11.	Yield per Sq. Mile.	Not a Tank Scheme.
12.	Yield from catchment.	1593 C/s.
13.	Normal flow in cusecs.	Not gauges.
14.	No. of days supply is assured.	105 days.
15.	Supply in M.C.Ft.	
16.	Total yield from catchment and supply channel.	Net a tank scheme.
17.	Capacity existing in Millian C.Ft.	
18.	Capacity proposed.	
19.	No. of fillings proposed and annual acreage in M.C.Ft. in this case.	
20.	Irrigable area (duly adopted):	30 acres per C/S.
21.	Ultimate ayacut fixed:-	24.79 acres stabli and 16.65 acres add tional ayacut undei crop and 6.44 acres under III crop.
22.	Area benefitted.	41.44 acres under I Crop and 6.44 acres under III crop.
23.	Tonnage (how the tonnage is adopted should be indicated)	5.6 tons as furnis by the Collector o South Kanara.
24.	Estimated amount.	Rs. 7000/-
25.	D.R.No., C.R.No.	Yet to be sanctione
26.	Rate per ton.	Rs.1250/-
27.	Remarks:-1. Note here whether any existing irrigation will be affected.	NIL.

2. And credit has been taken for lands acquisition charged and abatement of land revenue:-- .....

Sd. x x

/True Copy/

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BIDU ANICUT SCHEME.

ESTIMATE FORM-ABSTRACT.

Item Number.	Quantity	Description of work	Rate	Per	Amount	Total.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
			Rs.		Rs.	Rs.
1.	L.S.	Benching the hard granite rock 4" deep bailing water and forming ring bunds	L.S.		250/-	
2.	L.S.	Earthwork excavation for foundation in all soils	L.S.		250/-	
3.	1800 Cft.	Concrete hard broken stone in cement mortar 1:4:8	128/-	100 Cft.	2304/-	
4.	2400 Cft.	Random rubble masonry in cement mortar 1:4	122/-	"	2928/-	
5.	17 Cft.	Teakwood, Wrought and put up	18/8/-	1 cft.	315/-	
6.	400 Cft.	Rough Stone dry packing for apron and revetment	57/8/-	100 Cft.	230/-	
7.	L.S.	Cutting of wood, tarring the new wood work and providing ironslip and variations in foundations	L.S.		300/-	
8.	L.S.	Unforeseen items	L.S.		181/-	
9.	L.S.	Contingencies and Petty repairs charges	L.S.		242/-	
					7000/-	7000/-

/true copy/

Superintendent.

9/6

10/3/38.

TSR.8.5